



## WHOLE-HOUSE AIR EXCHANGER

**Make**  
your  
environment  
healthier



HEPA Filter with  
**ANTIMICROBIAL  
PROTECTION**



# The Harmful Effects of Dust, Excess Humidity and Indoor Air Pollution

**You've made your home safe and sound from harm.**

**Think again.** Silent hazards to your health and home lurk in the air. Studies show that the indoor air of the average home can be up to 100 times more polluted than outdoor air.\* Invisible pollutants produced by common household substances, plus dust and excess humidity that get trapped in today's well-insulated homes, can increase your risk of chronic respiratory illness and your home's risk of serious structural damage.



\*Source: Environmental Protection Agency (EPA)

## PRIMARY SOURCES OF

### ATTIC

- ➔ Asbestos
- ➔ Insulation
- ➔ Fibreglass
- ➔ Dust and dust mites



### BATHROOM

- Excess humidity
- Personal hygiene products (aerosols, sprays, etc.)
- Mold spores



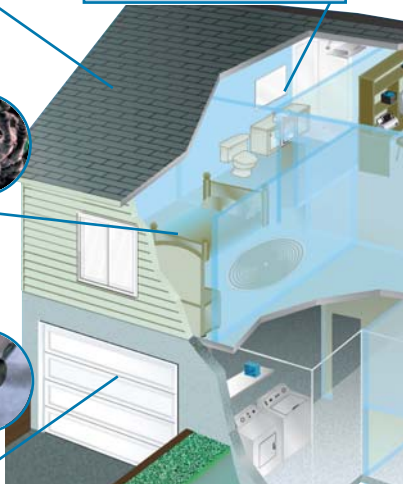
### BEDROOM

- ➔ Allergens
- ➔ Dust and dust mites
- ➔ Pet hair and dander
- ➔ Carbon dioxide (CO<sub>2</sub>)
- ➔ Carpet



### GARAGE

- ➔ Carbon monoxide (CO)
- ➔ Gas
- ➔ Solvents
- ➔ Pesticides and herbicides
- ➔ Dust
- ➔ Paint and chemicals
- ➔ Cleaning agents



*Clean air is within*

## A Risk to Your Health and Home: Excess Humidity

Today's well-insulated homes often lack the ability to "breathe" freely. Trapped, stale air and excess humidity can lead to mold build-up, unpleasant odors, condensation on windows and even structural damage to your home.

**Adequate ventilation, good air circulation and maintaining adequate heating throughout your home are important and effective methods to help prevent moisture problems.**

Source: Canadian Mortgage and Housing Corporation (CMHC)

## Dust, Chemicals, Aerosols and Other Common Pollutants

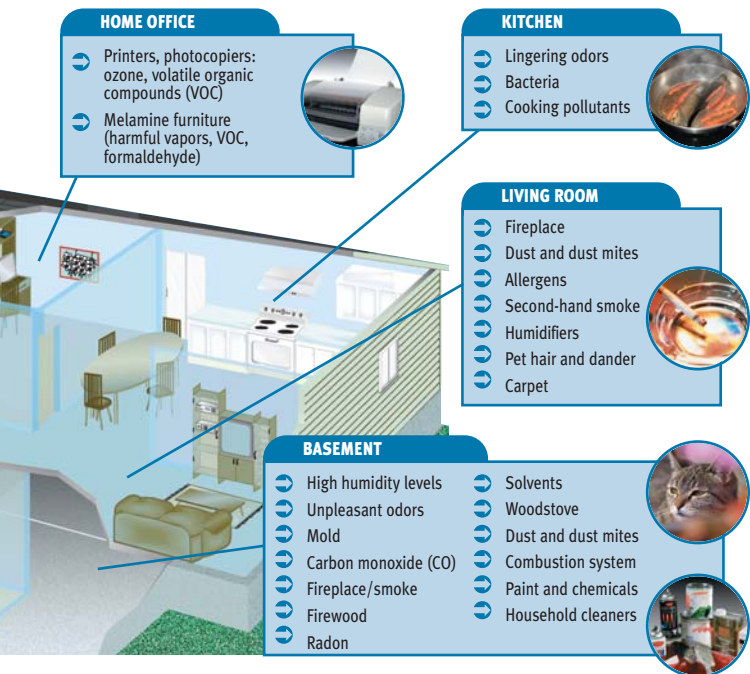
Pervasive irritants such as dust, dust mites, cigarette smoke and other pollutants commonly found in household air may increase the risk of chronic respiratory illness, allergies, sinusitis, frequent headaches, coughing and asthma.

**The rate of asthma has increased by 160% over the last 15 years.**

Source: www.aerias.org



## INDOOR AIR POLLUTION



your reach...

# Protect your Health and Home: The Venmar Air Exchange Solution

Air exchange, in combination with **HEPA\* filtration**, is the best way to achieve optimal air quality in your home, helping reduce the risk of polluted indoor air. Based on the simple principle of “good air in, bad air out,” Venmar units expel stale indoor air and gaseous pollutants while exchanging it with a continuous flow of fresh, revitalized outdoor air. In addition, Venmar air exchange units help prevent uncontrolled excess humidity, which can lead to mildew, mold and structural deterioration.

During this exchange process, powerful **HEPA filters capture 99.97%** of all dust and airborne particles as small as 0.3 micron (1 human hair = 150 microns), helping to reduce allergy symptoms, asthma, recurring colds and persistent coughs.



**True HEPA filter  
99.97% efficiency  
at 0.3 micron**

*\* High efficiency particulate air*

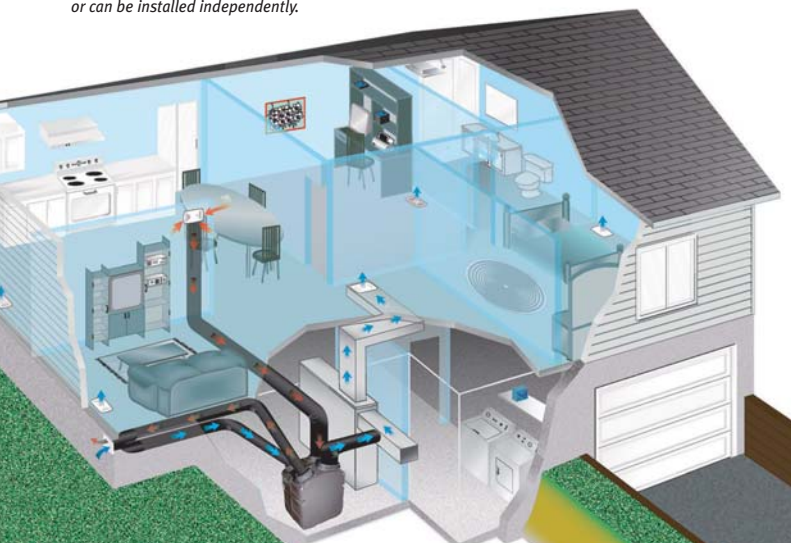


## HEPA Filter with **ANTIMICROBIAL PROTECTION\***

- Controls mold and bacteria growth causing bad odours
- Helps improve air quality
- Ensures a high performance filtration capacity

\* Included with HEPA 3100 and HEPA 4100 models

*Venmar whole-house air exchangers can be integrated with your home's existing forced-air system or can be installed independently.*



# Venmar Whole-House Air Exchanger

## STANDARD FEATURES



### Air Exchange

- Expels polluted indoor air and continually exchanges it with fresh outdoor air to improve indoor air quality



### Excess Humidity Control

- Expels excess humidity and reduces the risk of window condensation, which prevents damage to and deterioration of your home



### HEPA Filter With Antimicrobial Coating

- Captures 99.97% of all dust and particles, even those as small as 0.3 micron (1 human hair = 150 microns)
- Can help reduce allergy symptoms, asthma, recurring colds and persistent coughs



### Recirculation

- Venmar units feature a recirculation setting, which allows you to filter your indoor air 24 hours a day and attain a consistent temperature throughout your home



### Smart Temp

- When extreme outdoor temperatures occur, the *Smart Temp* mechanism automatically sets the time of air exchange in order to ensure the most comfortable indoor environment



### Electronic Wall Control (included)

- Automatic and programmable
- Four control modes
- Outdoor temperature display
- Animated icons and backlight



### Peace-of-Mind Warranty

- All Venmar units come with a two-year warranty

# HEPA 3100

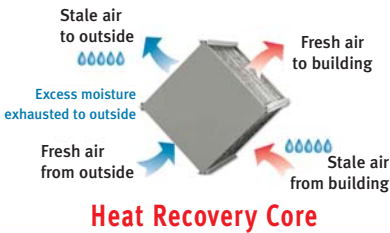


*EXCLUSIVE*

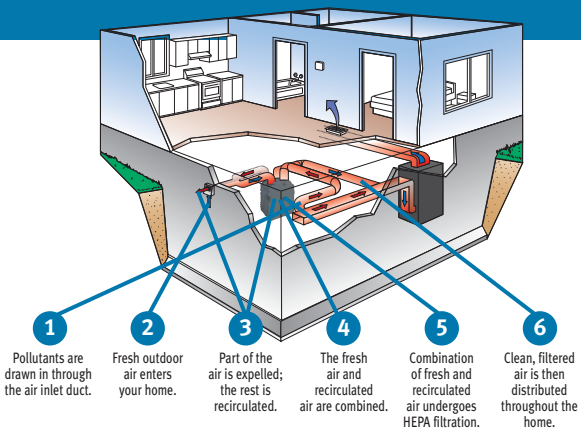
## Heat Recovery

*Ideal for colder climates*

*The HEPA 3100 features a heat recovery core. As warm air is expelled from your house, it warms the incoming cold, fresh air before it's circulated throughout your home. The result is a constant supply of fresh air, no unpleasant drafts and greater home comfort.*



## COMMON INSTALLATIONS



Note: Unit can also be installed independently.

# HEPA 4100

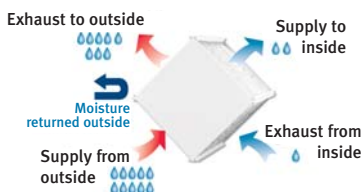
EXCLUSIVE

## Energy Recovery

*Ideal for cooling seasons/  
high-humidity environments*

*Designed to maintain an ideal level of humidity throughout the year, the HEPA 4100's unique energy recovery core extracts outdoor humidity during the air-conditioning season and transfers it, in part, to the contaminated air leaving your home, thereby preventing the outside humidity from getting inside.*

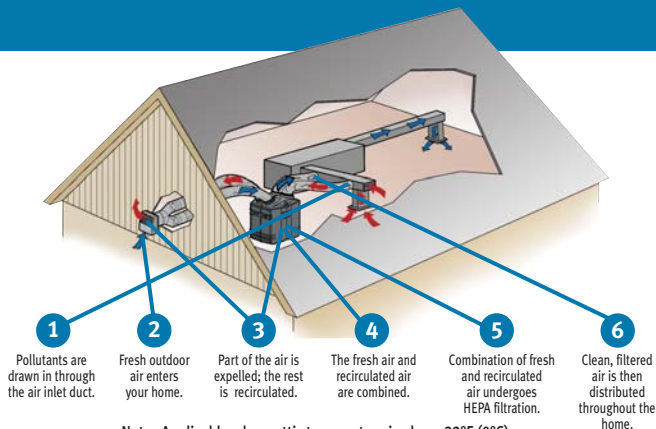
*The process is reversed during the cold season to replace moisture loss due to home heating.*



**Energy Recovery Core  
Cooling Season**



## OF VENMAR UNITS



Note: Applicable where attic temperature is above 32°F (0°C).  
Unit can also be installed independently.

# PROFESSIONAL INSTALLATION



**Entrust the installation of your Venmar air exchange system to your highly qualified HVAC contractor.**

Your HVAC contractor is a qualified professional who has undergone training to understand the advantages of proper ventilation and filtration.

As an expert in the field, your HVAC contractor will show you the many advantages of a Venmar air exchange system and how it can dramatically improve the air quality in your home, allowing you and your family to breathe easier and live healthier. Once the installation is complete, your contractor will review operation and maintenance with you. If you require service during or after the warranty period, you can count on your Venmar HVAC contractor to be at your service.

## TECHNICAL SPECIFICATIONS

### HEPA 3100/4100

Rate of air flow (fresh air) CFM* (l/s)**	70-105 CFM (33-50 l/s)
Total air flow CFM* (l/s)**	270 (128 l/s)
Filter	HEPA WITH ANTIMICROBIAL PROTECTION
Diameter of air exhaust and fresh air outlet vents	5 or 6 in. (125 or 150 mm)
Diameter of indoor air ports	8 in. (200 mm)
Voltage	120 V
Power: Normal	170 W
Boost	232 W
Dimensions: Height	29.4 in. (748 mm)
Width	22.9 in. (582 mm)
Depth	17.8 in. (452 mm)
Weight (approx.)	40 lb. (18 kg)
Installation kit (sold separately)	#13932
Wall control (included)	40415
HVI certified (Home Ventilating Institute)	Yes

\* Cubic feet per minute

\*\* Litres per second



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Call Your Venmar HVAC Contractor Today